Track on REAL-TIME SYSTEMS at ACM SAC 2008

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PRELIMINARY CALL FOR PAPERS

REAL-TIME SYSTEMS:
Applications, Solutions, and Techniques

Special Track in SAC 2008
23rd Annual ACM Symposium on Applied Computing
http://www.acm.org/conferences/sac/sac2008

Sponsored by ACM SIGAPP
March 16-20, 2008, Fortaleza, Brazil

Track website:
http://cs.chaminade.edu/org/sac08

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IMPORTANT DATES

Submission Deadline: September 8, 2007
Notification of Acceptance: October 16, 2007
Camera-Ready Due: October 30, 2007
Conference: March 16-20, 2008

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RATIONALE

Real-time systems are gradually turning into a public "utility"' in people's daily life, and the advances in Micro Electro Mechanical Systems (MEMS), wireless networking, the growth in semiconductor technology and the miniaturization of energy capacity have served as a catalyst in this process. With more and more emerging applications and architectures, such as sensor data acquisition, peer-to-peer data sharing and grid computing, it is essential to revitalize and enrich the real-time systems arena.

The focus of this track, which is at its first edition this year, is on the application of both novel and well-known techniques in real-time systems design and development. Applications include avionics, aerospace, telecommunications, process control, consumer electronics, multimedia, entertainment, and automotive. We solicit both regular research papers and application experience papers in an effort to bring together academics and industrial practitioners. Papers will be peer-reviewed by at least three members of the program committee.

TOPICS OF INTEREST

SAC2008-RTS seeks papers covering all aspects of real-time systems design, analysis, implementation, evaluation, and case studies. We welcome the submission of mature papers in several areas of real-time, including but not limited to: scheduling and schedulability analysis; worst-case execution time analysis; modeling and formal methods; validation techniques; quality of service support; reliability; compiler support; component-based approaches; middleware and distribution technologies; programming languages and operating systems; communication networks; wireless sensor networks; time engines and time synchronization; embedded systems; systems on chip; hardware/software co-design; power-aware and other resource-constrained techniques.

CHAIRS

Paulo Martins – Chaminade University of Honolulu, USA
Leandro Buss Becker – UFSC, Brazil

PROGRAM COMMITTEE

Luis Almeida – University of Aveiro, Portugal
Alan Burns - The University of York, UK
Gerhard Fohler - University of Kaiserslauten, Germany
Joerg Kaiser - University of Magdeburg, Germany
Michael G. Harbour - University of Cantabria, Spain
Tei-Wei Kuo - National Taiwan University, Taiwan
Julius Leite – Federal University Fluminense (UFF), Brazil
George Lima – Federal University of Bahia (UFB), Brazil
Daniel Mossé - University of Pittsburgh, USA
Romulo de Oliveira – Federal University of Santa Catarina (UFSC), Brazil
Carlos Pereira – Federal University of Rio Grande do Sul (UFRGS), Brazil
Peter Puschner - Vienna University of Technology, Austria
Jorge Real - Technical University of Valencia, Spain
Rodrigo Santos - Universidad Nacional del Sur, Argentina
Eduardo Tovar - Polytechnic Institute of Porto, Portugal

SUBMISSIONS

Each submitted paper will be fully refereed and undergo a blind review process by at least three referees. The accepted papers will be published in the ACM SAC 2008 proceedings.

Please note that accepted papers must fit within five (5) two column pages, with the option (at additional expenses) to add three (3) more pages.

Submission guidelines must be strictly followed:

- Each paper must be prepare in an electronic format, either PDF (preferred) or postscript. Please note: neither hardcopy nor fax submissions will be accepted.

- Submissions should be printable on a standard printer on common paper formats like letter and DIN A4. Please use a Postscript previewer such as Ghostview to check the portability of Postscript documents. The acceptable compression format is Zip.

- The author(s) name(s) and address(es) must not appear in the body of the paper, and self-reference should be in the third person. This is to facilitate blind review.

- The body of the paper should not exceed 4,000 words.

- A separate cover sheet (this should be sent separately from the main paper) should show the title of the paper, the author(s) name(s) and affiliation(s), and the address (including e-mail, telephone, and fax) to which correspondence should be sent.

- The actual submission procedure is specified in the track website.

- All submissions must be received by September 8, 2007.

Questions can be directed to the Track Chairs. Additional details are available at the track home page at http://cs.chaminade.edu/org/sac08 and at the conference home page at http://www.acm.org/conferences/sac/sac2008/.

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